

**Complete if Known**

Application Number	10/632817
Filing Date	August 04, 2003
First Named Inventor	NEIL ANDRE ROBERTS
Group Art Unit	1751
Examiner Name	John R. Hardee
Attorney Docket Number	VK0001USCIP

(Use as many sheets as necessary)

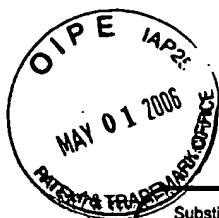
Sheet	1	of	1
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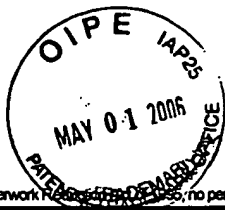
Substitute for form 1448A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/632817
		Filing Date	August 04, 2003
		First Named Inventor	NEIL ANDRE ROBERTS
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		Examiner Name	John R. Hardee
Sheet 1 of 2	Attorney Docket Number	VK0001USCIP	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BUTLER D., "R22 drip-in a success at BRE", Refrigeration and Air Conditioning, pp. 49-50 (1994)	<input type="checkbox"/>
		Fluorocarbon azeotropes, Research Disclosure 16265 (1977)	<input type="checkbox"/>
		JP 01 139678 (English Translation of the Abstract) 1989 NO MONTH AVAILABLE	<input type="checkbox"/>
		PEARSON SF, "Uses of hydrocarbon refrigerants", I.I.F.-I.I.R. Commissions B1, B2, E1 and E2, pp. 439-46 (1996)	<input type="checkbox"/>
		E-mail reply from Herrick Conference to Felix Flohr dated May 27, 2003	<input type="checkbox"/>
		Internet citation, "Conference Organizing Committee", http://www.ecn.purdue.edu/Herrick/Events/organize-frame.htm	<input type="checkbox"/>
		Internet citation, "Registration Information", http://www.ecn.purdue.edu/Herrick/Events/Registration.htm	<input type="checkbox"/>
		ASHRAE Standard 34-2001, "Contents", pp.7 and 13	<input type="checkbox"/>
		Sworn Statement by Christoph Meurer 9/07/03	<input type="checkbox"/>
		BIRETT K, "Information sheets on hazardous substances" (1996) NO MONTH AVAILABLE	<input type="checkbox"/>
		SOFFIENTINI ET AL., "Evaluation of alternative refrigerants when retrofitting R-22 refrigeration systems", Centro Studio Galileo – Industria & Formazione Eleventh European Conference, Milan, Italy (2005)	<input type="checkbox"/>

Examiner Signature	<i>Hardee</i>	Date Considered	9/06/06
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PTO/SB/08B (07-05)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 2

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Group Art Unit	1751
Examiner Name	John R. Hardee
Attorney Docket Number	VK0001USCIP

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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✓		JP 01 139675 (English Translation of the Abstract) 1/97	<input type="checkbox"/>
✓		ROBERTS NA, "Determination of the performance, leak scenario, flammability and oil return characteristics of novel R22 replacement", Proceedings of the Seventh International Refrigeration Conference at Purdue University, West Lafayette, Indiana (1998) NO MONTH AVAILABLE	<input type="checkbox"/>
✓		MUSSO E ET AL., "Miscela ternaria a base di HFC contenenti idrocarburi come sostituti "drop in" di R12 nella refrigerazione domestica", Conference on Conditioning, Heating, Refrigeration: Innovations and Trends, Milan, Italy (1997) NO MONTH AVAILABLE	<input type="checkbox"/>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	1
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Complete if Known

Application Number	10/832817
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August 04, 2003

First Named Inventor	NEIL ANDRE ROBERTS
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Group Art Unit	1751
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Examiner Name	John R. Hardee
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Attorney Docket Number | VK0001USCIP

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

Date Considered

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 3



Complete if Known

Application Number	10/632,817
Filing Date	August 4, 2003
First Named Inventor	Neil Andre Roberts
Group Art Unit	1751
Examiner Name	John R. Hardee
Attorney Docket Number	VK0001USCIP

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number – Kind Code ² (if known)				
R		US -	4,755,316	07-05-1988	Magid et al.	
		US -	5,520,833	05-28-1996	Kaneko	
		US -	5,688,432	11-18-1997	Pearson	
		US -	5,954,995	09-21-1999	Goble	
		US -	6,065,305	05-23-2000	Arman et al.	
		US -	6,076,372	06-20-2000	Acharya et al.	
		US -	6,230,519 B1	05-15-2001	Arman et al.	
		US -	6,511,610 B2	01-28-2003	Caron et al.	
		US -	6,526,764 B1	03-04-2003	Singh et al.	
		US -	6,606,868 B1	08-19-2003	Powell et al.	
		US -	6,629,419 B1	10-07-2003	Powell et al.	
		US -	6,695,973 B1	02-24-2004	Musso et al.	
R		US -	6,783,691 B1	08-31-2004	Bivens et al.	
		US -	2002/0050583 A1	05-02-2002	Caron et al.	
		US -				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		CountryCode³	Number⁴ Kind Code⁵ (if known)				
		JP	2002 228307 A	08-14-2002	Matsushita Electric		X
		CN	1183451	06-03-1998	Gu Chujun		X
		CN	1280166 A	01-17-2001	Qinghua University		X
		EP	0 399 817 B1	11-28-1990	DuPont		<input type="checkbox"/>
		EP	0 427 604 B1	04-21-1993	Elf Atochem S.A.		<input type="checkbox"/>
		EP	0 539 952 B1	05-05-1993	Matsushita Electric		<input type="checkbox"/>
		EP	0 565 265 B1	12-13-1995	Star Refrigeration Ltd.		<input type="checkbox"/>
		EP	0 659 862 A1	06-28-1995	Sanyo Electric Co.		<input type="checkbox"/>
		EP	0 856 571 B1	04-16-2003	Showa Denko Kabushiki Kaisha		<input type="checkbox"/>
		EP	1 184 438 B1	03-06-2002	Atofina		<input type="checkbox"/>
		EP	1 193 305 A1	04-03-2002	Honeywell International		<input type="checkbox"/>
		GB	2 247 462 A	04-03-1992	Star Refrigeration Ltd.		<input type="checkbox"/>
		GB	2 250 514 A	06-10-1992	Star Refrigeration Ltd.		<input type="checkbox"/>
		GB	2 327 427 A	01-27-1999	Rhodia Limited		<input type="checkbox"/>
		GB	9923088.0	09-30-1999	Refrigerant Products Ltd.		<input type="checkbox"/>
		GB	0005043.5	03-02-2000	Refrigerant Products Ltd.		<input type="checkbox"/>
		GB	0010171.7	04-27-2000	Refrigerant Products Ltd.		<input type="checkbox"/>
		GB	2 356 867 A	06-06-2001	Rhodia Limited		<input type="checkbox"/>

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Application Number		10/632,817			
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Group Art Unit		1751			
Examiner Name		John R. Hardee			
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		US -				
		US -				
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		CountryCode ³	Number ⁴ Kind Code ⁵ (if known)				
S			JP 01108291	10-19-1997	Daikin Kogyo KK		<input type="checkbox"/>
			JP 2576161 B2 (JP 1-139675)	01-29-1997	Asahi Glass KK		X
			JP 2576162 (JP 1-139675)	01-29-1997	Asahi Glass Co. Ltd.		X
			JP 2584337 B2 (JP 4-18484)	02-26-1997	Sanyo Electric Co. Ltd.		X
			JP 1997059611 A	03-04-1997	Sanyo Electric Co. Ltd.		X
			JP 3127138 B2	01-22-2001	Showa Denko K.K.		X
			JP 3754198 B2	12-22-2005	Sanyo Electric Co. Ltd.		X
			KR 1997-022058	05-28-1997	(Kosh-N) Hankook Shimwha Co. et al.		X
			RU 2 072 382 C	01-27-1997	Podchernjaev et al.		<input type="checkbox"/>
			RU 2 135 541	08-27-1999	Rossiiskij nauchnyj tsentr "Prikladnaja khimija"		<input type="checkbox"/>
			RU 2 161 637 C2	10-01-2001	Beljaev, Andrej Jur'evich		<input type="checkbox"/>
			WO 93/01152 A2	01-21-1993	DuPont		<input type="checkbox"/>
			WO 93/15163 A1	08-05-1993	Allied-Signal		<input type="checkbox"/>
			WO 94/00529 A1	01-06-1994	Great Lakes Chemical Corporation		<input type="checkbox"/>
			WO 00/56834	09-28-2000	DuPont		<input type="checkbox"/>
			WO 01/23491 A1	04-05-2001	Refrigerant Products Ltd.		<input type="checkbox"/>
			WO 01/23492 A1	04-05-2001	Refrigerant Products Ltd.		<input type="checkbox"/>
	Q			WO 01 23493 A1	04-05-2001	Refrigerant Products Ltd.	
			WO 02/24829 A1	03-28-2002	Rhodia Organizue Fine Limited		<input type="checkbox"/>
			WO 02 26912 A	04-04-2002	Honeywell International		<input type="checkbox"/>
			WO 02 26913 A2	04-04-2002	Honeywell International		<input type="checkbox"/>

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R		WILSON, DP, RICHARD, RG; "Determination of Refrigerant Lower Flammability Limits in Compliance with Proposed Addendum p to Standard 34"; ASHRAE Transactions 2002, v. 108; pp. 1-17; June 23, 2002	<input type="checkbox"/>
R		ROBERTS, NA, PEARSON, SF; "High Efficiency R22 Replacement (ISCEON 59, a mixture of R125, R134a and isobutane)"; Congress Symposium Meeting-Colloque, 1998 Int. Compressor Eng. Conf., Purdue, July 23, 1998	<input type="checkbox"/>
R		ROBERTS, NA; "Energy Saving Refrigerant Blends Comprising R125, R134a, R600 or R600a"; European Conference (Milan); pp-108; June 17-18, 2005	<input type="checkbox"/>
R		"Final Draft International Standard-Projet Final de Norme Internationale", International Electrotechnical Commission, IEC; December 17, 2004	<input type="checkbox"/>
R		SANDERS PA., "Table 14-2 Flammability Limits of Various Propellants in Air", Handbook of Aerosol Technology, Second Edition, Malabar, Florida, pp. 233, 250 (1987)	<input type="checkbox"/>
		Test Protocol for Determination of Refrigerant Properties (Description of Equipment; Chart: Position of Thermocouples and Transducers on LT-Calorimeter, Operating Conditions)	<input type="checkbox"/>
R		Chart: Vapor Composition Flammability Data 3/2006	<input type="checkbox"/>
R		English Abstract: JP 01108291 10/97	<input checked="" type="checkbox"/>
R		English Abstract: RU 2161637 10/01	<input checked="" type="checkbox"/>
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Examiner Signature	Hardee	Date Considered	9/06/06
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